K-12 School Garden Projects in Montana As of January 2010

SOUTHCENTRAL MONTANA

Gallatin County

Contact: Aubree Durfey - Gallatin Valley Farm to School Aubree@gvfarmtoschool.org

Irving Elementary School (K-5), Bozeman, Montana Contact: Heather Musselman, https://doi.org/10.1007/j.com/html/

Irving was awarded \$5,000 this year from the Lowe's Toolbox for Education Grant to continue their edible school yard efforts. Prior to the grant, the school had a fruit orchard on the playground, but this additional money will help their edible playground grow even more. A group of dedicated parents worked hard over the summer to build six raised garden beds (one for each grade level) and is currently working with the Montana State University Department of Architecture, to design a greenhouse. The goal is to create an outside classroom, teach kids about healthy eating, grow their own food, insect pollination, and more.

Chief Joseph Middle School, Bozeman, Montana Contact: Jan Krieger - Spanish Teacher and Club Advisor jan.krieger@bsd7.org

With a new orchard on their playground, thanks to the efforts of The One Million Ways Club, a group of dedicated students at Chief Joseph has committed to making the world a better place. The students applied for a Community Food Co-op 4% Day Grant, a program in which the Co-op gives 4 percent of its total sales (on the fourth Friday of every month) to a local organization or business whose mission is in line with theirs. The students received about \$1,800 from the grant to purchase trees. Located on the school's new grounds, the orchard is made up of 14 trees, including apple, plum and cherry.

Emily Dickinson Elementary School (K-5), Bozeman, Montana Contact: Nicole Pearson (this contact is probably outdated)

The idea for a school garden came about in 1999 to give kids in increasingly urban Bozeman a place to connect with nature. From then on, work began on a native plant garden and an outdoor learning center. The results are now a 10,000 square-foot garden with more than 200 native trees and shrubs, perennials, a fountain, and a pond. As a result of the garden, Emily Dickinson now has a student-gardener program, lessons in composting, annual bird counts and a grade-specific garden curriculum.

Hyalite Elementary, Bozeman, Montana

Contact: Robbye Hamburgh, robbye.hamburgh@bsd7.org, (406) 582-6800

This brand new elementary school in Bozeman has already begun planning for a school garden. Students in each grade are currently writing proposals to create garden plots at the new school.

Hawthorne Elementary School, Bozeman, Montana Contacts: Jenny Grossenbacher and Megan Ulrichs

Parents, teachers and student groups met in the spring of 2009 and discussed the logistics of the "Green Team" composting program and what each group would need to do to make it happen. Students were educated about composting and the use of live worms and composting to promote sustainability. The composting station will be fully incorporated in the spring of 2010.

Gallatin Gateway School (K-8), Gallatin Gateway, Montana

Contact: Kim Debruycker, Superintendent <u>debruycker@gallatingatewayschool.net</u>

Gallatin Gateway's sole school aims to teach about gardening across the entire curriculum. The 150 sq. foot heated greenhouse is used to teach about plant propagation, plant growth, economics, math and science for grades K-8.

Monforton School (K-8), Bozeman, Montana Contact: Lynne Scalia, <u>Iscalia@monfortonschool.org</u>

Monforton School outside of Bozeman, MT is working hard to make a school garden a reality. Monforton's wellness committee is collaborating with the local 4-H, who has offered to provide garden maintenance, to get the project up and running by summer 2010.

Middle Creek Montessorri, Bozeman, Montana Contact: Nancy McNabb, nancy@middlecreekmontessori.org

Middle Creek Montessori is conveniently surrounded by nature-inside and out. Many classrooms feature live plants and indoor aquariums as well as an indoor greenhouse. Outdoors, students find a large classroom garden, as well as school pets including chickens, goats, and sheep. Middle Creek's mission, to nurture each child's innate drive to explore, discover, and achieve, is fostered by the wonderful indoor and outdoor opportunities available!

Park County (Livingston)

Contact: Dan Hardy (School Foodservice Director), dan.hardy@livingston.k12.mt.us
Mark Rehder (Farms for Families – nonprofit), mark@farmsforfamilies.org

Livingston School District, Livingston, Montana

Contacts: Dan Hardy (School Foodservice Director) <u>dan.hardy@livingston.k12.mt.us</u>
Mark Rehder (Farms for Families – nonprofit) <u>mark@farmsforfamilies.org</u>

Livingston School District is working with Mark Rehder of Farms for Families and Future Farmers of America to start a school garden. Through collaboration with agriculture and science teachers as well as food service director Dan Hardy, raised beds are currently in place and students will begin planting fruits and vegetables in them this spring. Dan has also been buying local food from Farms for Families and is using it in the school menu. The next step will be to formally establish a committee of teachers to make core decisions about the Farm-to-School programs, goals and methodology for this type of Project-based Learning.

Washington School, LINKS for Learning, Livingston, Montana Contacts: Julie Hancock, ihancock@livingston.k12.mt.us Megan Drimal, megan.drimal@livingston.k12.mt.us

LINKS for Learning is the after-school program of the Livingston School District, serving grades K-5 after school and in the summer. The programs take place at Washington School (formerly an elementary school – now used for LINKS and Adult Education) but serve all of Livingston. Last year a school garden project was implemented by removing the sod from an area of the playground and turning it into a lovely organic garden. The children planned, planted, tended, harvested and ate from the garden. A greenhouse is in the process of being added and extends the growing season. The Growing Classroom – Garden and Nutrition Activity Guide (Life Lab, inc.) is used to guide the studies and activities.

Park High, Livingston, Montana

Contact: Kevin Fochs KFochs@metnet.mt.gov

Currently, Park High School has a greenhouse which features gardens and hydroponics. Plans are in place to add a community garden this spring that can be used by the high school cafeteria. In the event of expanded funding, installation of a processing facility for local schools will also be implemented near the high school.

Montessori Island School, Livingston, Montana

Contact: Alyson Peterson

The Montessori Island School has extended the invaluable lessons of the plant life cycle into the regular school year by initiating a cold frame starter project to expand their gardening program.

Paradise Valley, Montana

Contact: Delmer Cox, delmer@astelier.com

The Arrowhead and Pine Creek schools in Paradise Valley have after-school programs that will begin building a greenhouse this spring.

NORTHCENTRAL MONTANA

Greenfield Elementary School (PK-6), Fairfield, Montana Contact: Salley Young, School Foodservice Director

Although school is out during the growing season, Greenfield Elementary School has found a way to bring in loads of fresh tomatoes and cucumbers and involve their students in the process. Greenfield Elementary School does not maintain its own garden, but instead contracts with a local organic truck farmer to grow potatoes and some seasonal vegetables. In addition, the 3rd and 4th graders participate in the harvest and delivery, as well as preparation of the food once it arrives in the kitchen during the school year. Students also participate in "hot housing" a few tomato plants and are encouraged to bring in vegetables from their home gardens to contribute to the lunch program. Due to its success, this spring the kids will also help with the planting to provide next year's harvest. A plan to compost some of the schools' food waste is also under discussion.

C.M. Russell High School, Great Falls, Montana Contacts: Sandy Courtnage, Montana Farmers Union Jodi Koterba, CMR, (406) 268-3378

The Electric City Agriculture Academy Program, housed within CM Russell High School in Great Falls, was awarded a grant from the Montana Farmers Union to help construct a hoop greenhouse project. The hoop house will provide students with the opportunity to extend the growing season, and explore growing fresh, local food and to promote local food system development. The applied landscape and construction tech class at CMR High School will begin construction on the 30 X 48 hoop greenhouse this spring, and will be tied to the wind generator that was erected in 2008. The fresh produce will be used in the CMR salad bar, and any surplus will go to the community organizations who have

helped support the project such as the local meals-on-wheels and the community food bank. In addition, the back 24 feet will contribute to the science curriculum, providing agricultural students the opportunity for lab experiences and class projects.

Chinook School District, Chinook, Montana

Contact: Robin L. Allen, RAllen@metnet.mt.gov

Chinook School District currently has a 30' hoop greenhouse, and has used it in the past for growing landscaping plants and for hydroponics projects. This spring, the garden club will grow flowers in the greenhouse, and crop experiments will be performed by various agriculture classes.

EASTERN MONTANA

Columbus School, Columbus, Montana

Contact: Daniel C. Miller, danmil@metnet.mt.gov

Columbus School features an 18 X 20' greenhouse with annual bedding plants and hanging baskets. The greenhouse is equipped with vent and circulation fans, a natural gas heater, and a domestic fertilizer injector. It provides a hands-on learning experience for students, and is used by a wide variety of classes such as the 8th grade plant unit and occasional experiments for the SAE project. However, the horticulture class takes on much of the responsibility, operating it like a commercial greenhouse with a sales and marketing component included.

Custer School, Custer, Montana

Contact: Carla D. Leligdowicz, CLeligdowicz@metnet.mt.gov

Custer School utilizes a greenhouse for teaching plant science to 7th graders and also for teaching greenhouse management to high school juniors.

Fromberg School District, Fromberg, Montana

Contact: Jennifer A. Birrer, JBirrer@metnet.mt.gov

Fromberg School District has a greenhouse which is 48' 8" long and 18' 7" wide and is used for growing flowers and fresh veggies. Products are then sold to the community in the spring.

Sidney High School, Sidney, Montana

Contact: Gary Schaff – Ag Ed Teacher, gschaff@metnet.mt.gov

Sidney High School features a student built 20' X 40' greenhouse located on the south shop's exterior wall with a door opening to the shop area. The shed-shaped

greenhouse was constructed in 1997, and is used by the Agriculture Education Department and the Special Needs Department.

Melstone High School, Melstone, Montana

Contact: Brandon Braaten, (406) 358-2317, BBraaten@metnet.mt.gov

The Melstone Agriculture Education Program operates a greenhouse project every year as a fundraiser for their Future Farmers of America (FFA) chapter in conjunction with the horticulture portion of the curriculum. This year, a full class of 13 students is dedicated to the operation of the greenhouse. The program has also partnered with the Melstone community garden, with garden beds that were finished toward the end of summer 2009, and food was available at the local farmer's market. The 2010 spring plant sale will feature everything from tomato and other vegetable plants to ornamental plants from the greenhouse.

Glendive School, Glendive, Montana

Contact: Caroline Silver, AmeriCorps VISTA Volunteer with Farm to Table Project, carolinersilver@gmail.com

Glendive School is partnering with the Boy's and Girl's Clubs this spring to get kids out to the community garden and do hands-on food and gardening activities.

Canyon Creek School, Billings, Montana

Contact: Sandra Abraham, Chairperson of School Garden Committee abrahams@billings.k12.mt.us

Jennifer Tolton/the Yellowstone Valley Citizens Council, jftolton@hotmail.com

Yellowstone Valley Citizens' Council, an affiliate of Northern Plains Resource Council, Is working to start a vegetable garden at Canyon Creek School (K-8) in Yellowstone County.

Bench Elementary, Billings, Montana

Contact: Maribeth Habeck, habeck4@imt.net

Bench Elementary, Billings Heights, has a native plant learning garden.

NORTHWEST MONTANA

Salish Kootenai College, Pablo, Montana

Contact: Virgil Dupuis, virgil dupuis@skc.edu

Salish Kootenai College has a school garden and is expanding the gardening activities on campus and within the community with four other gardens. They are constructing a

new greenhouse and some hoop houses this spring that will hopefully be ready for use later this year.

Somers Middle School, Lakeside/Somers School District, Somers, Montana Contact: Robin Vogler, School Foodservice Director, vogler robin@yahoo.com

Somers Middle School has a small greenhouse and the Lakeside Elementary has a small courtyard garden with raised beds. Lettuce and salad greens from the greenhouse have been used in the school lunch program, and arrangements have been made with the science teacher to begin growing snow peas this spring.

Whitefish Public School District, Whitefish, Montana
Contact: Jay Stagg, Foodservice Director, StaggJ@wfps.k12.mt.us

Whitefish Public School District is in the beginning stages of implementing a hoop house. More information and details to come in the next few months!

West Glacier School, West Glacier, Montana Contact: Lisa McKeon, (406) 387-5543

In the spring of 2009, West Glacier School received several grants to build three raised garden beds with irrigation and hoop frames.

Glacier and Flathead High Schools, Kalispell, Montana Vo-Ag Center, (406) 751-3950

Students from both Flathead and Glacier High Schools in Kalispell may participate in many different agriculture projects at the Vo-Ag Center. The Vo-Ag Center is on 80 acres of farmland. Students take part in various activities such as building wood projects, greenhouse horticulture projects, and looking after the livestock. English, science, and natural resources are other classes that are offered in conjunction with oag class. All students are taught basic skills throughout their four years at the Vo-Ag Center.

WESTERN MONTANA

Project: Missoula BEANS (Blending Education, Agriculture, Nutrition in Schools) a Project of Garden City Harvest

(Note: See spring 2008 newsletter article "School Gardens Growing in Missoula" at http://www.missoulacfac.org)

Missoula's Garden City Harvest's Community Education Program runs five school gardens in partnership with each school. Following are details about the five school gardens.

Contact: Jason Mandala
Community Education Director
Garden City Harvest
(406) 239-5524
gch_education@yahoo.com
www.gardencityharvest.org

Willard Alternative High School, Missoula, Montana

Contact: Vanessa Nie, Flagship Coordinator, altflagship@mcps.k12.mt.us
Willard has a medium-sized garden with raised beds, fruit trees, berries, a small greenhouse, and a composting operation. Missoula's Garden City Harvest helped develop the garden in 2008.

Meadow Hill Middle School, Missoula, Montana
Contact: Betsy Defries, GCH Garden Coordinator, betsydefries@yahoo.com
Kimberly Olson, Spanish Teacher, n tro p@hotmail.com

Meadow Hill has a large hybrid school garden/community garden with plots for community members and the Flagship Program. With the help of Garden City Harvest, which helps schools develop and maintain school gardens here in Missoula in partnership with the Flagship Program and the MCPS, the garden was established in 2003. In addition, this spring Spanish teacher Kimberly Olson will be adding a Spanish garden onto the original plot.

Washington Middle School, Missoula, Montana

Contact: Aaron Fessler, SLP Teacher, amfessler@mcps.k12.mt.us

Washington has a small garden (only about 800 or so square feet) that has recently been revived through the work of faculty, Flagship, and Garden City Harvest.

Lowell Elementary School Helping Hands Garden, Missoula, Montana Contact: Britta Bloedorn, Garden Coordinator, babloedorn@mcps.k12.mt.us

Lowell's school garden was built in the spring of 2009 and is the most integrated of Missoula's school gardens. Through grants and creative fundraising Lowell has been able to hire a half-time garden coordinator to help students and teachers use the garden effectively as an outdoor classroom.

DeSmet School, Missoula, Montana Contact: Mike Syverson-Principal

DeSmet, a school composing its own school district separate from Missoula County Public Schools, began the creation of a school garden in 2008. The garden was started by a group of social work students from the University of Montana, who raised the money via benefit concerts and local business donations. The garden is supported by a three year grant for summer programs, which DeSmet received in 2008. The garden was created with help from the local community garden nonprofit Garden City Harvest and their garden curriculum expert.

Additional Western Montana School Gardens in Missoula, Ravalli, Musselshell and Powell Counties

Big Sky High School, Missoula, Montana

Contact: Kate Lindner, krlindner@mcps.k12.mt.us

Big Sky High School has received funding to build two raised garden beds, which they hope to make into hoop houses in the future. Two groups at Big Sky High School, the Agriculture Education Program and the Students for Social, Economic, and the Environmental Justice (SSEEJ), are collaborating to create a salsa and flower garden. The student-run organizations hope to market their products this summer at city markets.

Daly Elementary School, Hamilton, Montana Contact: Ria Overholt, overholtr@hsd3.org

Daly School Community Garden, which is entering its fifth season this year, is located on the corner of school property. The garden is divided into three separate sections, with one-third of the garden reserved for rented plots, one-third as a production area for the local food bank, and the final one-third for educational purposes.

Victor School, Victor, Montana

Contact: Jill Davies, jill@sustainablelivingsystems.org

Victor school has recently built a new addition which included the construction of ten 5' x 20' beds and one 5' x 50' bed on the south and west sides of the new building. Fruit trees have already been planted, and vegetables will be planted in the spring. That makes 1,250 sq. ft. of bed space to be adopted by teachers and used as hands-on learning environments offering a rich context for exploring science, nutrition, social studies, math, art, language and writing. The school has already supplied new soil in the beds, and drip irrigation systems have been installed. The school also has a

greenhouse on site. In addition, Victor school owns a 4-acre piece of good agriculture land a few blocks from the school that, if all goes well, and funds for a coordinator are obtained, will become a much larger and more comprehensive Community Garden/Edible School yard project in the future.

Powell County High School, Deer Lodge, Montana Contact: Bill L. Lombardi, <u>BLOMBARDI@metnet.mt.gov</u>

Powell County High School has a 16' x 24' greenhouse, and grows bedding plants.

NORTHEASTERN MONTANA

Malta, Montana

Contact: Travis Isaacs, <u>JIsaacs@metnet.mt.gov</u>

Malta has a school-owned lot behind the agriculture shop, and is working on planting a school garden there this spring. The school plans on giving some products to the food bank, and a local grocery store has agreed to buy some produce as well. Interest in horticulture and increasing the opportunities for hands-on experiences has really increased after many faculty members attended a workshop last year. The idea to build a greenhouse is gaining support, and the school hopes to make this their next big project!

Winifred School, Winifred, Montana

Contact: Heather M. Erickson, <u>HErickson@metnet.mt.gov</u>

Winifred School is beginning to incorporate garden learning into their curriculum. A community farmers' market is in the works, and when it starts the school will grow garden vegetables to sell to community members. Winifred School is also experimenting with growing flowers and letting the elementary children transplant the plants into vases that will be constructed to put the flowers in for a Mother's Day woods project.

Bainville, Montana

Contact: Angela R. Lowery, alowery@metnet.mt.gov

Bainville has had a greenhouse for the past few years, and this spring the students will grow some chilies and tomato starters to be used in school lunches.

Hinsdale, Montana

Contact: Patti L. Armbrister, PArmbrister@metnet.mt.gov

Hinsdale has a 12' X 16' greenhouse and is in the process of building a 16' X 24' passive solar greenhouse.

Report developed by: Mary Stein, MS and Juli Louttit, BS, Program Assistant for MT Team Nutrition Program

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